

1 33. An electrical structure, comprising:
2 a first substrate having a conductive pad;
3 a second substrate having a conductive pad; and
4 a conductive button, comprising: a conductive wiring helically wound circumferentially
5 around a dielectric core; and an outer dielectric jacket around the conductive wiring, wherein at
6 least two end contacts at a first end of the conductive button are in mechanical and electrical
7 contact with the conductive pad of the first substrate, and wherein at least two end contacts at a
8 second end of the conductive button are in mechanical and electrical contact with the conductive
9 pad of the second substrate.

1 34. The electrical structure of claim 33, wherein the first substrate includes a printed wiring
2 board, and wherein the second substrate includes an electronic module.

1 35. The electrical structure of claim 33, wherein being helically wound includes being braided or
2 being served.

1 36. The electrical structure of claim 33, wherein the dielectric core, the dielectric jacket, and the
2 conductive wiring are each sufficiently compressible so as to accommodate up to about 8 mils of
3 composite variability that includes a planarity of a surface of the first substrate and a planarity of
4 a surface of the second substrate which is opposite the surface of the first substrate.

1 37. The electrical structure of claim 33, further comprising a dielectric place holder that holds the
2 button, wherein the place holder is disposed between the first substrate and the second substrate.

1 38. The electrical structure of claim 37, wherein the button is friction held by the place holder,
2 molded to the place holder, or glued to the place holder.

1 39. The electrical structure of claim 33, wherein the mechanical and electrical contact with the
2 conductive pad of the first substrate and with the conductive pad of the second substrate is
3 maintained by a force upon each said pad, said force directed toward the button from each said
4 pad.

1 40. The electrical structure of claim 39, wherein the electrical structure is clamped, and wherein
2 the force upon each said pad results from the electrical structure being clamped.

1 41. An electrical structure, comprising:
2 a first substrate having a conductive pad;
3 a second substrate having a conductive pad; and
4 a conductive button, comprising: a conductive wiring helically wound circumferentially
5 around a dielectric core; and an outer dielectric jacket around the conductive wiring, wherein at
6 least two end contacts at a first end of the conductive button are in mechanical and electrical
7 contact with the conductive pad of the first substrate, wherein at least two end contacts at a
8 second end of the conductive button are in mechanical and electrical contact with the conductive
9 pad of the second substrate, wherein the mechanical and electrical contact with the conductive
10 pad of the first substrate is maintained by a force upon each said pad, said force directed toward
11 the button from each said pad, and wherein the at least two end contacts at the second end of the
12 conductive button are solderably coupled to the conductive pad of the second substrate.